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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/491,461	01/26/2000	Paul Dagum	RAP-102	RAP-102 8555	
33031	7590 12/02/2005		EXAMINER		
	L STEPHENSON ASC WOOD SPRINGS RD.	VAN DOREN, BETH			
BLDG. 4, SU			ART UNIT	PAPER NUMBER	
AUSTIN, TX 78759			3623		

DATE MAILED: 12/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	-
09/491,461	DAGUM ET AL.	
Examiner	Art Unit	<u> </u>
Beth Van Doren	3623	

	Beth Van Doren	3623	
The MAILING DATE of this communication appear	ars on the cover sheet with the	correspondence add	ress
THE REPLY FILED 18 November 2005 FAILS TO PLACE THIS	APPLICATION IN CONDITION F	OR ALLOWANCE.	
1.  The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Not a Request for Continued Examination (RCE) in compliance time periods:	ving replies: (1) an amendment, a tice of Appeal (with appeal fee) in the with 37 CFR 1.114. The reply m	fidavit, or other evider compliance with 37 C	nce, which FR 41.31; or (3)
<ul> <li>a)</li></ul>	dvisory Action, or (2) the date set fortt ater than SIX MONTHS from the mailin b). ONLY CHECK BOX (b) WHEN TH	ng date of the final rejecti	on.
TWO MONTHS OF THE FINAL REJECTION. See MPEP 70 Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	on which the petition under 37 CFR 1. ension and the corresponding amoun hortened statutory period for reply ori than three months after the mailing d	t of the fee. The appropr ginally set in the final Offi	iate extension fee ce action; or (2) as
<ol> <li>The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter a Notice of Appeal has been filed, any reply must be filed AMENDMENTS</li> </ol>	nsion thereof (37 CFR 41.37(e)), t	o avoid dismissal of th	ns of the date of e appeal. Since
<ol> <li>The proposed amendment(s) filed after a final rejection, I</li> <li>They raise new issues that would require further corton.</li> <li>They raise the issue of new matter (see NOTE belowed)</li> </ol>	nsideration and/or search (see NC w);	OTE below);	
<ul> <li>(c) ☐ They are not deemed to place the application in bet appeal; and/or</li> <li>(d) ☐ They present additional claims without canceling a definition.</li> </ul>		, , ,	the issues for
NOTE: (See 37 CFR 1.116 and 41.33(a)).	or openang namber of many re	jootou olamio.	
<ul> <li>4.  The amendments are not in compliance with 37 CFR 1.12</li> <li>5.  Applicant's reply has overcome the following rejection(s)</li> </ul>	:		
<ol> <li>Newly proposed or amended claim(s) would be all non-allowable claim(s).</li> </ol>	lowable if submitted in a separate	, timely filed amendme	ent canceling the
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is prov. The status of the claim(s) is (or will be) as follows: Claim(s) allowed:	☐ will not be entered, or b) ☒ wilded below or appended.	ill be entered and an e	explanation of
Claim(s) objected to: Claim(s) rejected: <u>1-21</u> . Claim(s) withdrawn from consideration:			
<ul> <li>AFFIDAVIT OR OTHER EVIDENCE</li> <li>The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).</li> </ul>	t before or on the date of filing a N d sufficient reasons why the affida	lotice of Appeal will <u>no</u> vit or other evidence is	ot be entered s necessary and
<ol> <li>The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary</li> </ol>	vercome <u>all</u> rejections under apportant and was not earlier presented. S	eal and/or appellant fa See 37 CFR 41.33(d)(	ils to provide a 1).
<ol> <li>The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER</li> </ol>	n of the status of the claims after o	entry is below or attacl	ned.
11. The request for reconsideration has been considered bu see attached sheet.	t does NOT place the application	in condition for allowa	nce because:
12. Note the attached Information Disclosure Statement(s).	PTO/SB/08 or PTO-1449) Paper	No(s)	
13.  Other:		Mo	
		TARIO R. HAFIZ	AINIFR
S Petent and Trademady Office	SUPER'	ISORY PATENT EXAMINOLOGY CENTER 30	600

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Application/Control Number: 09/491,461

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## **Advisory Action**

1. The following is an advisory action in response to communications received 11/18/05.

2. Applicant's arguments in the communications with regards to rejections based on Hillier et al. (*Introduction to Operations Research*) have been fully considered, but they are not persuasive. In the remarks, applicant argues that Hillier et al. does not teach or suggest the decomposition of a multivariate problem into several single-variable problems.

In response to argument (1), examiner respectfully disagrees. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the feature/limitation upon which applicant relies (i.e., decomposition of a multivariate problem into several single-variable problems) is not recited in the rejected claims. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Claim 1 recites the language "performing a loading step to form elemental blocks as a function of a single variable" and "solving for the maximum of each elemental block over each associated single variable". Examiner points out that this language does not suggest or require that the claimed multivariate problem be broken down into several, separate single-variable problems. Examiner points out that the claim language, in its broadest reasonable interpretation, is anticipated by an objective function, wherein the objective function is made up of different variables that all affect the problem. See page 564, for an exemplary objective function, reciting " $Z=3x_1+5x_2$ ". Both  $3x_1$  and  $5x_2$  are blocks of the objective function (both blocks having a single variable), where each unit of  $x_1$  contributes 3 to the function and each unit of  $x_2$  contributes 5 to the objective function. In order to maximize this objective function, each variable is loaded and

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reloaded with values to determine the maximum value each variable would hold while satisfying constraints of the problem. If something else is meant in the problem, such as breaking the initial problem down into multiple smaller problems, this should be recited in the claims to receive appropriate patentable weight.

Examiner points out that claims 12 and 21 also do not recite any limitations or features that concern decomposing a multivariate problem into several single-variable problems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beth Van Doren whose telephone number is (571) 272-6737. The examiner can normally be reached on M-F, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on (571) 272-6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

bvd

November 28, 2005